

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P 03/116-bz/gs	FOR FURTHER ACTION	
see Form PCT/ISA/220 as well as, where applicable, item 5 below.		
International application No. PCT/EP2004/006887	International filing date (day/month/year) 25/06/2004	(Earliest) Priority Date (day/month/year) 26/06/2003
Applicant MERCK PATENT GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
① P, X	WO 03/104263 A (POWER SCOTT D ; GENENCOR INT (US); HARDING FIONA A (US)) 18 December 2003 (2003-12-18) the whole document -----	1-4
② A	WO 02/068469 A (MERCK PATENT GMBH ; CARTER GRAHAM (GB); CARR FRANCIS J (GB)) 6 September 2002 (2002-09-06) page 11, lines 30-32; table 1	1-11
X	----- page 12, line 6; table 1	12-15
X	----- -/-	12-15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

7 January 2005

Date of mailing of the international search report

02/02/2005

Name and mailing address of the ISA

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Authorized officer

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006887

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
③ A	PARK HEUNGROK ET AL: "Identification of functionally important residues of human thrombopoietin" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 273, no. 1, 2 January 1998 (1998-01-02), pages 256-261, XP002312523 ISSN: 0021-9258 abstract; figure 1	1-15
④ A	PEARCE KENNETH H JR ET AL: "Mutational analysis of thrombopoietin for identification of receptor and neutralizing antibody sites" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 33, 1997, pages 20595-20602, XP002312524 ISSN: 0021-9258 abstract; table 1	1-5
⑤ A	JAGERSCHMIDT ALEXANDRE ET AL: "Human thrombopoietin structure-function relationships: Identification of functionally important residues" BIOCHEMICAL JOURNAL, vol. 333, no. 3, 1 August 1998 (1998-08-01), pages 729-734, XP002234914 ISSN: 0264-6021 abstract; table 1	1-5
⑥ A	HOU JINZHAO ET AL: "Expression of active thrombopoietin and identification of its key residues responsible for receptor binding" CYTOKINE, vol. 10, no. 5, May 1998 (1998-05), pages 319-330, XP002312526 ISSN: 1043-4666 abstract	1-15
4		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006887

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 03104263	A	18-12-2003	WO 03104263 A2		18-12-2003
WO 02068469	A	06-09-2002	BR 0207542 A CA 2439168 A1 WO 02068469 A2 EP 1364011 A2 HU 0401121 A2 JP 2004533812 T MX PA03007625 A US 2004071688 A1		09-03-2004 06-09-2002 06-09-2002 26-11-2003 28-09-2004 11-11-2004 04-12-2003 15-04-2004

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